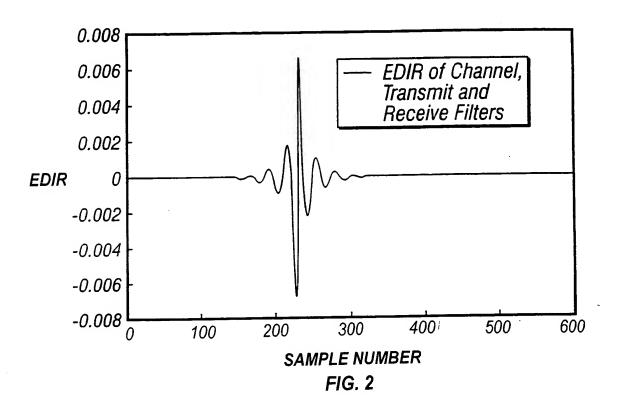
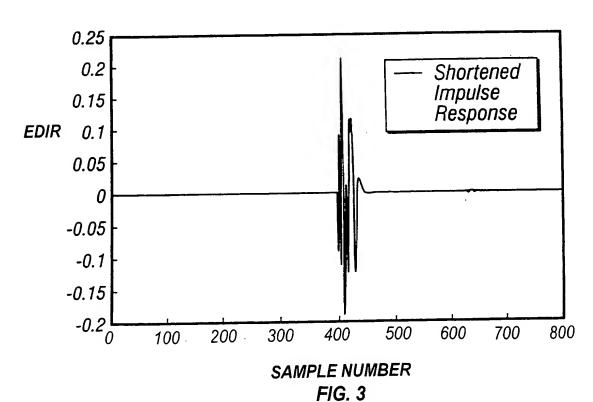


Matter No.: 06269-013002

Page 2 of 17

2/17





Page 3 of 17

Matter No.: 06269-013002 Page 3 of Applicant(s): Gopal Harikumar et al.
SPECTRALLY CONSTRAINED IMPULSE SHORTENING FILTER FOR A DISCRETE MULTI-TONE RECEIVER

3/17

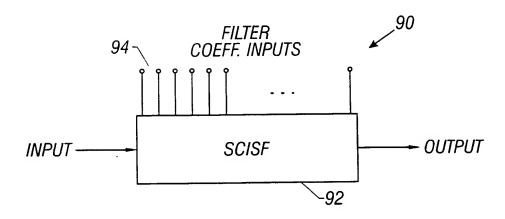


FIG. 4

Matter No.: 06269-013002 Page 4 of 17 Applicant(s): Gopal Harikumar et al. SPECTRALLY CONSTRAINED IMPULSE SHORTENING FILTER FOR A DISCRETE MULTI-TONE RECEIVER

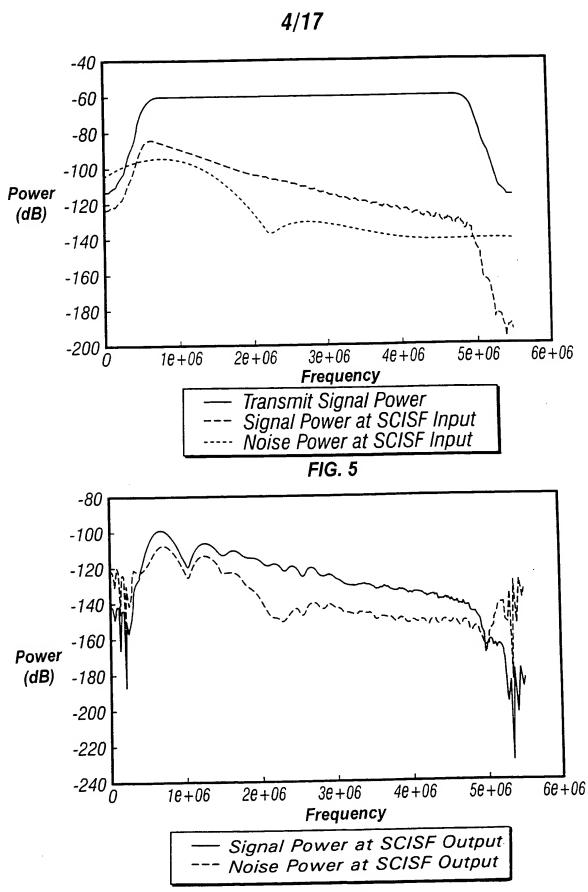


FIG. 6

Matter No.: 06269-013002 Page 5 of 17



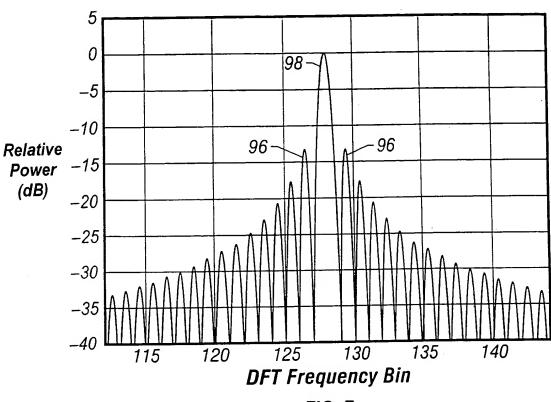


FIG. 7

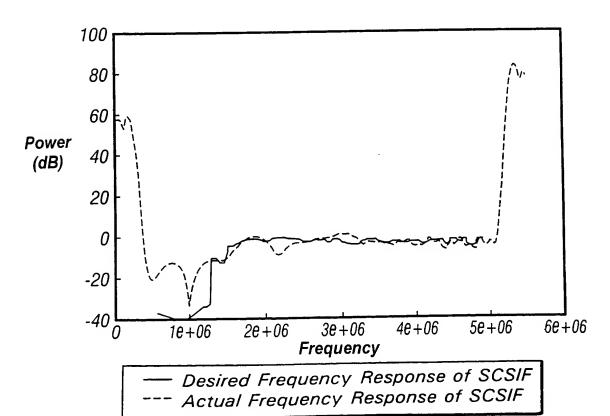
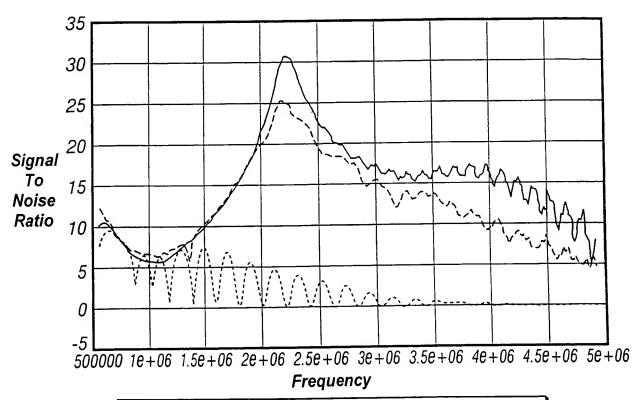


FIG. 8

Applicant(s): Gopal Harikumar et al.
SPECTRALLY CONSTRAINED IMPULSE SHORTENING FILTER FOR A DISCRETE MULTI-TONE RECEIVER

6/17



SNR at the SCISF OutputSNR at FFT Output with SCISFSNR at FFT Output with Regular Shortener

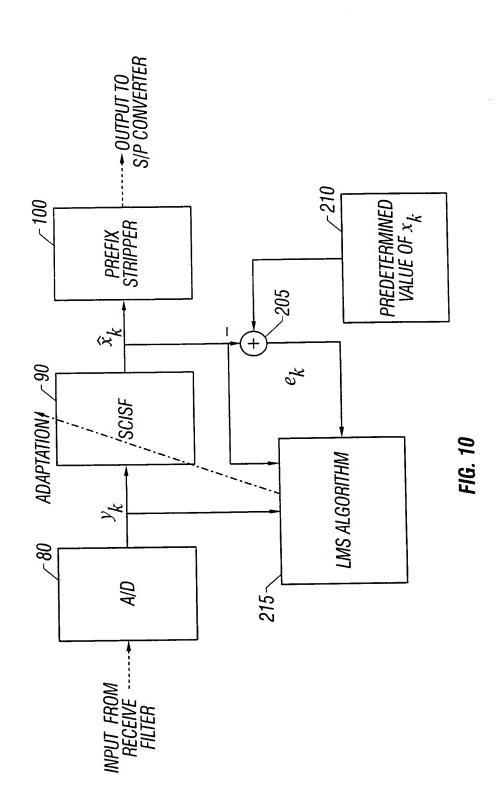
FIG. 9

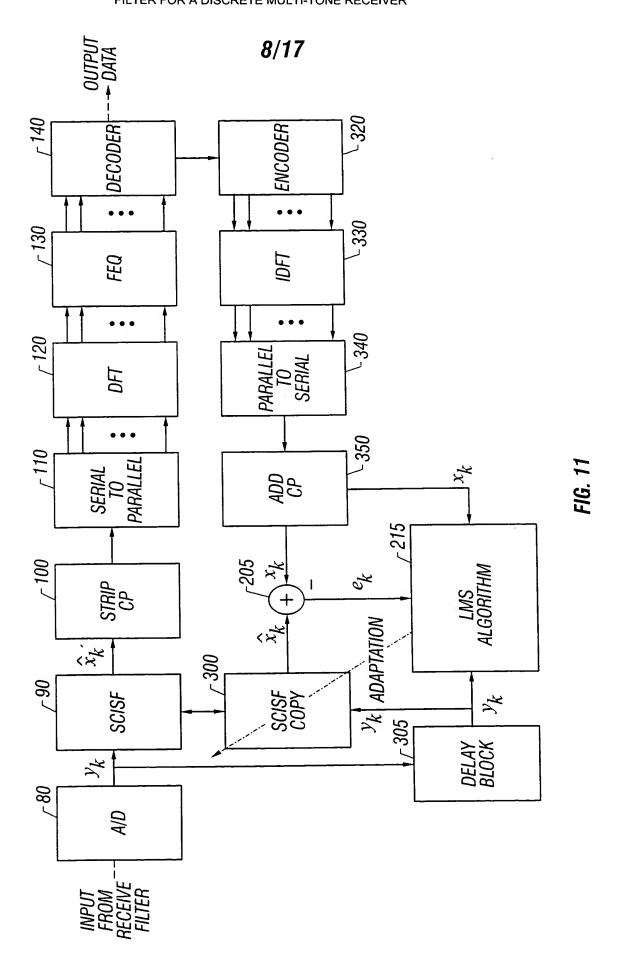
Page 7 of 17

Matter No.: 06269-013002 Page 7 of Applicant(s): Gopal Harikumar et al.

SPECTRALLY CONSTRAINED IMPULSE SHORTENING FILTER FOR A DISCRETE MULTI-TONE RECEIVER

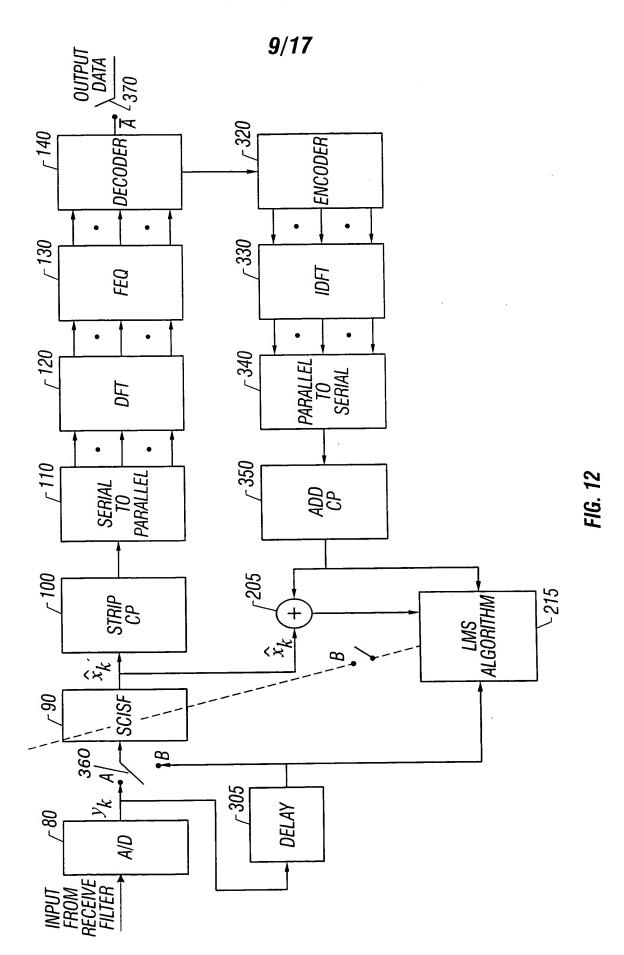
7/17





Matter No.: 06269-013002 Page 9 of Applicant(s): Gopal Harikumar et al.

SPECTRALLY CONSTRAINED IMPULSE SHORTENING FILTER FOR A DISCRETE MULTI-TONE RECEIVER



Matter No.: 06269-013002 Page 10 of 17 Applicant(s): Gopal Harikumar et al. SPECTRALLY CONSTRAINED IMPULSE SHORTENING FILTER FOR A DISCRETE MULTI-TONE RECEIVER

10/17

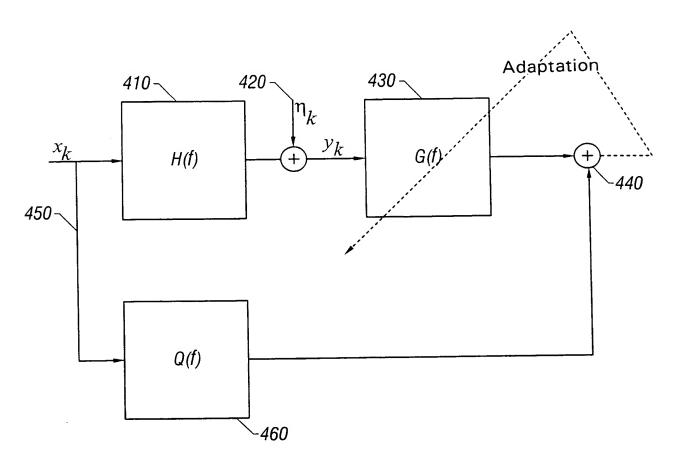


FIG. 13

Page 11 of 17

Matter No.: 06269-013002 Page 11 Applicant(s): Gopal Harikumar et al.
SPECTRALLY CONSTRAINED IMPULSE SHORTENING FILTER FOR A DISCRETE MULTI-TONE RECEIVER

11/17

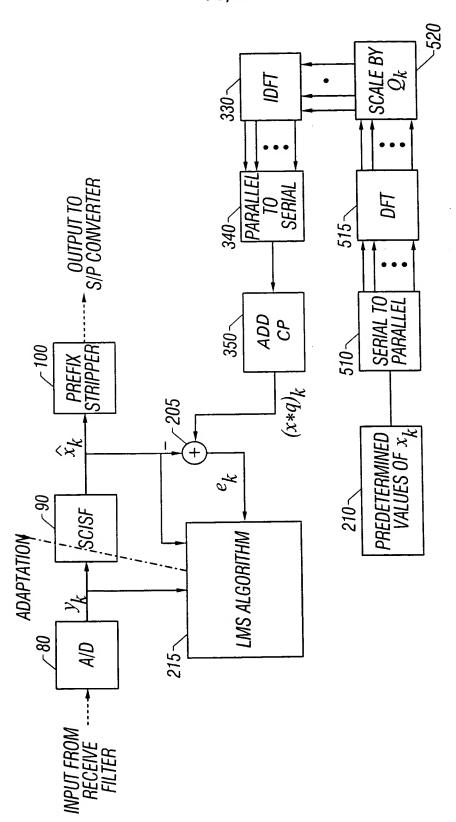
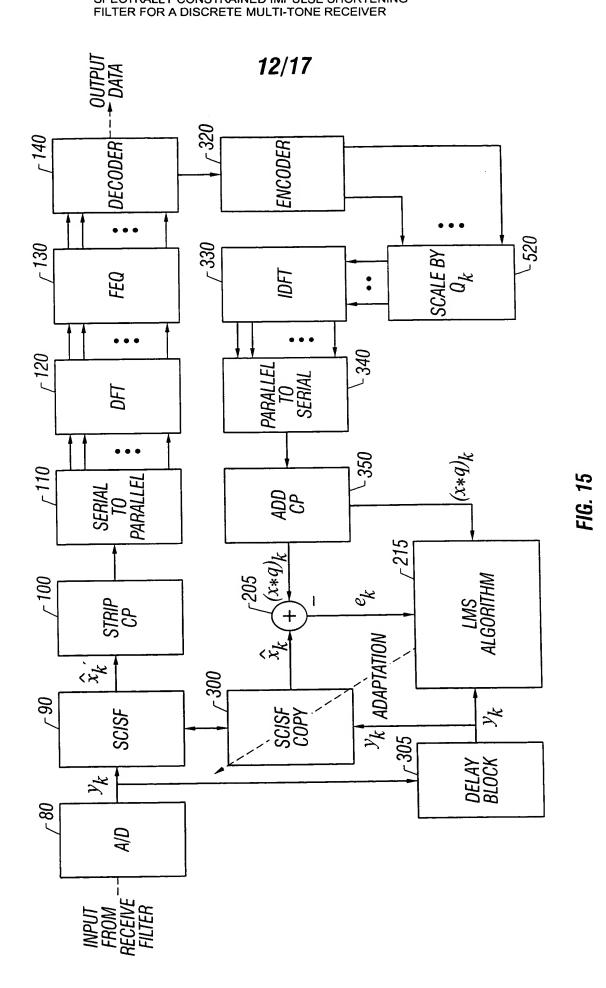
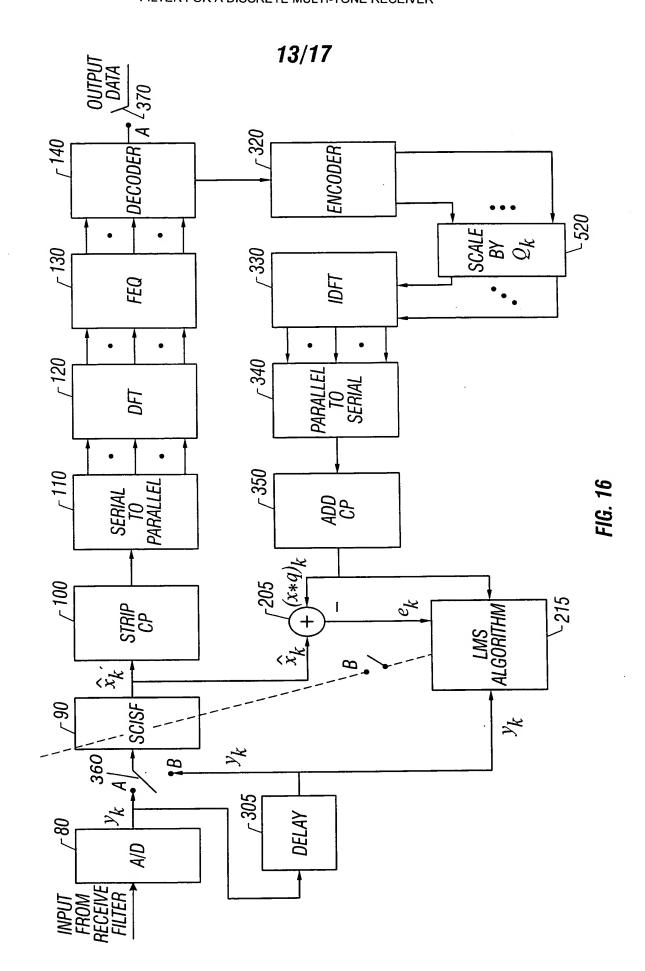


FIG. 14



Matter No.: 06269-013002 Page 13 of Applicant(s): Gopal Harikumar et al.

SPECTRALLY CONSTRAINED IMPULSE SHORTENING FILTER FOR A DISCRETE MULTI-TONE RECEIVER



Page 14 of 17

SPECTRALLY CONSTRAINED IMPULSE SHORTENING FILTER FOR A DISCRETE MULTI-TONE RECEIVER



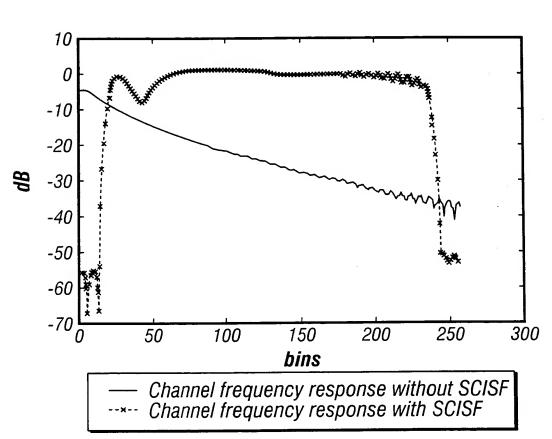


FIG. 17

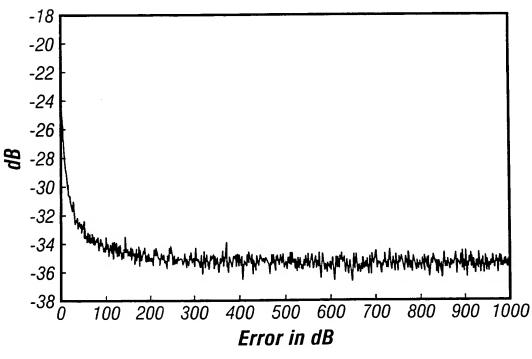


FIG. 18

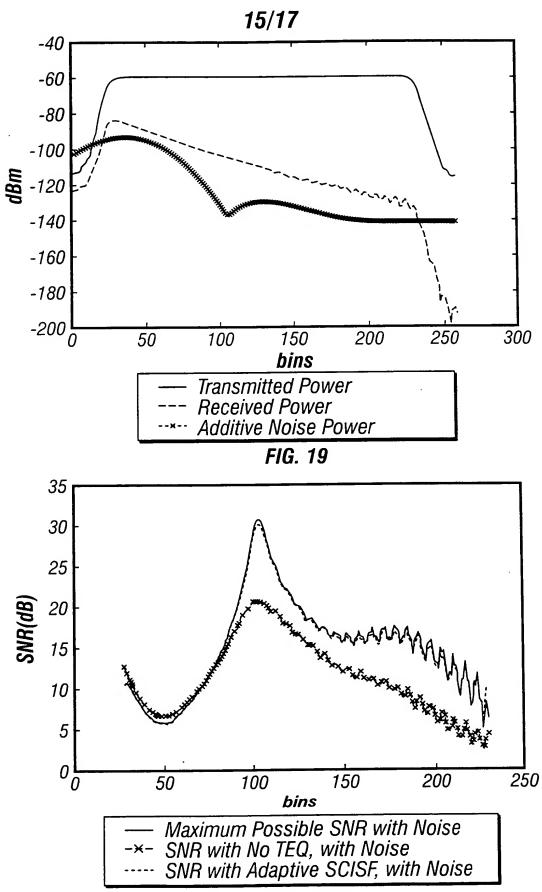


FIG. 20

Matter No.: 06269-013002

Page 16 of 17

16/17

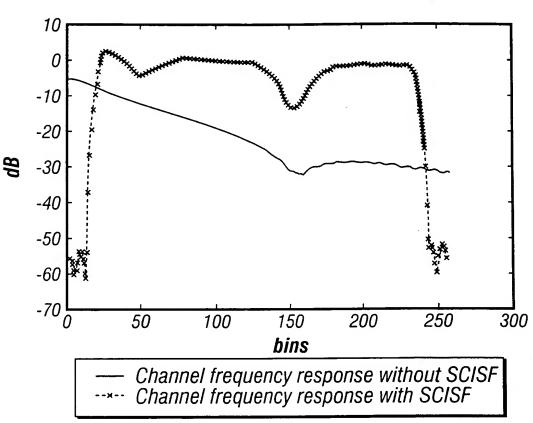


FIG. 21

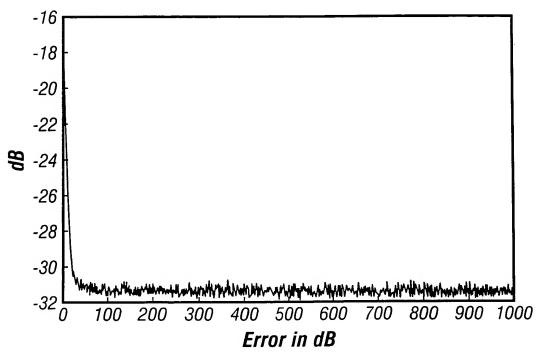


FIG. 22

Matter No.: 06269-013002

Page 17 of 17

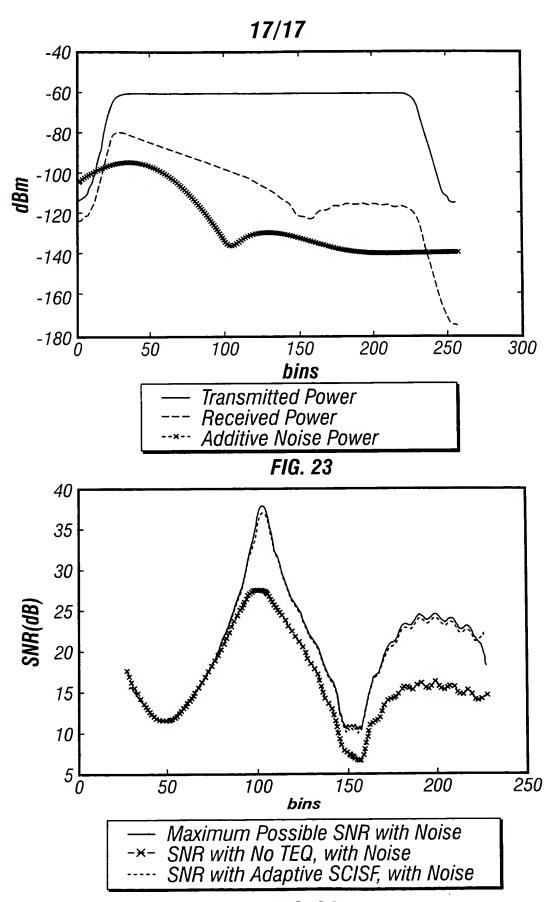


FIG. 24